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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference X14075			's file reference	FOR FURTHER ACT	See Notification	on of Transmittal of International xamination Report (Form PCT/IPEA/416)
International application No. PCT/US 03/08455				International filing date (day 27.03.2003	y/month/year)	Priority date (day/month/year) 29.03.2002
	national I		Classification (IPC) or b	oth national classification and	IPC	
Appli ELI	icant LILLY	AND	COMPANY et al.			
1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.					
2.	 This REPORT consists of a total of 5 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). 					
	These annexes consist of a total of sheets.					
3.	This	repor	t contains indications	relating to the following ite	ms:	
	1	×	Basis of the opinion			
	ii		Priority			
	" 111	☒	Non-establishment	of opinion with regard to no	velty, inventive ste	p and industrial applicability
	•		Look of unity of inve	ntion		
	IV Lack of unity of invention V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			, inventive step or industrial applicability;		
	VI		Certain documents			
VII Certain defects in the international application						
	VIII ☐ Certain observations on the international application					
Da	ate of sub	omissi	on of the demand		Date of completion	of this report
06	06.10.2003				30.01.2004	
Na pro	Name and mailing address of the international preliminary examining authority: European Patent Office			tional	Authorized Officer Wolf, C	ST S
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INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

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1.	Basis	of the	report
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With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	cription, Pages				
	1-76		as originally filed			
	Olai:	ms, Numbers				
	Ciai	ms, Numbers	a taine the filed			
	1-33		as originally filed			
2.	lang	uage in which the intel	ge, all the elements marked above were available or furnished to this Authority in the rnational application was filed, unless otherwise indicated under this item.			
	The	lable or furnished to this Authority in the following language: , which is:				
		the lenguage of public	ration of the international application (under Rule 48.3(b)).			
		the language of a trar	islation furnished for the purposes of international preliminary examination (under).			
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: 						
Contained in the international application in written form.						
		filed together with the	e international application in computer readable form.			
☐ furnished subsequently to this Authority in written form.						
		t	tly to this Authority in computer readable form.			
☐ The statement that the subsequently furnished written sequence listing does not go beyond the statement that the subsequently furnished written sequence listing does not go beyond the statement that the subsequently furnished.						
		The statement that the listing has been furn	ne information recorded in computer readable form is identical to the written sequence			
4. The amendments have resulted in the cancellation of:						
		the description,	pages:			
			Nos.:			
		the drawings,	sheets:			
	5. 🗆	heen considered to	n established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).			
		(Any replacement s report.)	heet containing such amendments must be referred to under item 1 and annexed to this			
	6 A	dditional observations,	if necessary:			

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			regar	d to novelty	, inventive step and industrial applicability		
111.	III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
1.	. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:						
	☐ the entire international application,						
	☑ claims Nos. 9-14 in respect of industrial			trial applicability			
	because:						
	the said international application, or the said claims Nos. 9-14 relate to the following subject matter wides not require an international preliminary examination (specify):				s Nos. 9-14 relate to the following subject matter which ination (specify):		
		see separate sheet					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so uncle that no meaningful opinion could be formed (specify):						
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opin could be formed.						
□ no international search report has been established for the said claims Nos.					d for the said claims Nos.		
 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: 							
	\square the written form has not been furnished or does not comply with the Standard.						
☐ the computer readable form has not been furnished or does not comply with the Standard.					ed or does not comply with the Standard.		
		A utio	I- 25/	a) with rega	d to novelty, inventive step or industrial applicability;		
V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
·	1. S	tatement					
	Ν	ovelty (N)	Yes: No:	Claims Claims	1-33		
	Ir	ventive step (IS)	Yes: No:	Claims Claims	1-33		
	ì	ndustrial applicability (IA)	Yes: No:	Claims Claims	1-8, 15-33		
	2. (Citations and explanations					

see separate sheet

- The following document is cited in the International Search Report:
 - D1: WO 00 47559 A (NAPORA FREDDY ANDRE ;MANCUSO VINCENT (BE); KRUSHINSKI JOSEPH HERMA) 17 August 2000 (2000-08-17).

In the light of the prior art document D1 the subject matter claimed appears to be novel and to involve an inventive step (Articles 33(2) and (3) PCT, section V).

D1 discloses compounds effective as 5-HT_{1F}-agonists and therefore useful as antimigraine agents. The compounds of D1 differ from the claimed compounds mainly in three structural portions: the phenyl, which is pyridyl in the compounds as claimed, in A which is NR³-CO-R¹ as claimed and in R¹ which is R⁴ as claimed.

The subject matter claimed is thus novel over the cited prior art.

- 2. The technical problem underlying the present invention was the provision of further compounds useful as 5-HT_{1F}-anti-migraine agents.
 - The skilled person faced with the task of solving said problem would not have arrived at the claimed compounds without inventive ingenuity. The stuctural differences of the claimed compounds when compared to the anti-migraine compounds known form D1 are not derivable from the prior art or common technical knowledge in an obvious manner. The solution to the technical problem thus appears to be non-obvious in the light of D1.
- 3. For the assessment of the present claims 9-14 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment (section III).

Claims 9-14 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated



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EXAMINATION REPORT - SEPARATE SHEET

with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).